What is claimed is:

1. A compound of the formula

$$\begin{array}{c|c}
R_4 & R_{3b} & R_{3a} \\
\hline
Ar_2 & N & Ar_1 \\
\hline
D & F & B
\end{array}$$

or a pharmaceutically acceptable salt thereof, wherein:

A, B, E, and D are independently CR<sub>2</sub> or N;

n is 0 or 1;

X is O, NH or  $CH_2$ .

Ar<sub>1</sub> is phenyl or a 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>;

represents fused phenyl or a fused 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 3 substituents independently chosen from R<sub>a</sub>;

R<sub>2</sub> is independently chosen at each occurrence from hydrogen, hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, and mono- and di-(C<sub>1</sub>-C<sub>4</sub>alkyl)amino;

 $R_{3a}$  and  $R_{3b}$  are independently hydrogen, hydroxy, halogen, cyano,  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_4$ alkyl),  $C_1$ - $C_6$ haloalkyl or  $C_1$ - $C_6$ haloalkoxy; or  $R_{3a}$  and  $R_{3b}$  are taken together to form an oxo group;

R<sub>4</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, and C<sub>1</sub>-C<sub>6</sub>haloalkoxy; and

R<sub>a</sub> is independently chosen at each occurrence from:

(i) hydroxy, halogen, amino, aminocarbonyl, cyano, nitro, and -COOH; and

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- (ii) C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>8</sub>haloalkyl, C<sub>1</sub>-C<sub>8</sub>haloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>3</sub>-C<sub>8</sub>alkanone, C<sub>2</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>8</sub>alkanoyloxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>2</sub>-C<sub>8</sub>alkyl ether, phenylC<sub>0</sub>-C<sub>4</sub>alkyl, phenylC<sub>0</sub>-C<sub>4</sub>alkoxy, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)aminoC<sub>0</sub>-C<sub>6</sub>alkyl, and (4- to 7-membered heterocycle)C<sub>0</sub>-C<sub>4</sub>alkyl; each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>haloalkyl, C<sub>1</sub>-C<sub>4</sub>haloalkoxy, and mono- and di-(C<sub>1</sub>-C<sub>4</sub>alkyl)amino; and wherein if:
  - (i)  $Ar_2$  is unsubstituted phenyl, di-methoxy substituted phenyl, or phenyl substituted with phenyl ( $C_1$ - $C_2$ alkoxy); and
  - (ii) A, B, E, and D are each  $CR_2$ ; G is a carbon atom covalently bound to the group  $X \leftarrow Ar_1$ , and  $Ar_1$  is phenyl,

then  $Ar_1$  is substituted at the position *para* to the point of attachment with a substituent other than halogen.

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- 2. A compound or salt according to claim 1, wherein Ar<sub>1</sub> is phenyl or pyridyl, each of which is substituted with from 0 to 4 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy.
- 3. A compound or salt according to claim 2, wherein Ar<sub>1</sub> is substituted with 1, 2 or 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl, C<sub>1</sub>-C<sub>4</sub>haloalkoxy and phenoxy.
- 4. A compound or salt according to any one of claims 1 to 3, wherein represents a fused ring chosen from phenyl and pyridyl, each of which is substituted with from 0 to 4 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, and mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino.
- 5. A compound or salt according to claim 4, wherein is substituted with 1, 2 or 3 substituents.
- 6. A compound or salt according to claim 5, wherein is substituted with 1, 2 or 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl) and C<sub>1</sub>-C<sub>4</sub>alkylthio.

 $Ar_2$ 

7. A compound or salt according to claim 6, wherein Ar<sub>2</sub> is phenyl or pyridyl, each of which is substituted with from 0 to 4 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy.

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- 8. A compound or salt according to any one of claims 1 to 7, wherein each  $R_2$  is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro,  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl and  $C_1$ - $C_4$ haloalkoxy.
- 9. A compound or salt according to claim 8, wherein A, B, E, and D are each CR<sub>2</sub>.
- 10. A compound or salt according to claim 10, wherein 1 or 2 of A, B, E, D is N, and the remainder are CR<sub>2</sub>.
- 11. A compound or salt according to any one of claims 1 to 10, wherein  $R_{3a}$  is hydrogen,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ alkenyl,  $C_2$ - $C_4$ alkynyl,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl) or  $C_1$ - $C_4$ haloalkyl; and  $R_{3b}$  is hydrogen.
- 12. A compound or salt according to claim 11, wherein  $R_{3a}$  is hydrogen or methyl; and  $R_{3b}$  is hydrogen.
- 13. A compound according to any one of claims 1 to 10, wherein  $R_{3a}$  and  $R_{3b}$  are taken together to form an  $\infty$  group.
- 14. A compound or salt according to any one of claims 1 to 13, wherein R<sub>4</sub> is 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkenyl, C<sub>2</sub>-C<sub>4</sub>alkynyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy.
- 15. A compound or salt according to claim 14, wherein R<sub>4</sub> is 0 or 1 substituents chosen from methyl, ethyl, and methoxy.
  - 16. A compound or salt according to any one of claims 1 to 15, wherein n is 0.
  - 17. A compound or salt according to any one of claims 1 to 15, wherein n is 1.

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18. A compound or salt according to claim 8, wherein:

Ar<sub>1</sub> is phenyl or pyridyl, each of which is substituted with from 0 to 4 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy;

represents phenyl or pyridyl, each of which is substituted with from 0 to 4 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, and mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino; and

R<sub>4</sub> represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkenyl, C<sub>2</sub>-C<sub>4</sub>alkynyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl, and C<sub>1</sub>-C<sub>4</sub>haloalkoxy.

$$R_5$$
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_4$ 
 $R_5$ 
 $R_{1a}$ 

wherein:

A and B are independently CR2 or N;

each R<sub>2</sub> is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;

R<sub>1a</sub> is hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- or di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl or phenoxy;

R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl, and phenoxy;

R<sub>3</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl or C<sub>1</sub>-C<sub>6</sub>haloalkyl;

R<sub>4</sub> represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkenyl, C<sub>2</sub>-C<sub>4</sub>alkynyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl, and C<sub>1</sub>-C<sub>4</sub>haloalkoxy; and

R<sub>5</sub> represents from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent R<sub>5</sub> are taken together to form a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>.

- 20. A compound or salt according to claim 19, wherein one of A and B is nitrogen.
  - 21. A compound or salt according to claim 19, wherein A and B are CH.
- 22. A compound or salt according to any one of claims 19 to 21, wherein  $R_{1a}$  is hydroxy, halogen, cyano,  $C_1$ - $C_6$ alkyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_4$ alkyl),  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ haloalkoxy or phenoxy.

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- 23. A compound or salt according to claim 22, wherein  $R_{1a}$  is cyano, chloro, fluoro,  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cyclo alkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl,  $C_1$ - $C_4$ haloalkoxy or phenoxy.
- 24. A compound or salt according to any one of claims 19 to 23, wherein R<sub>5</sub> represents 1 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, and mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino.
  - 25. A compound or salt according to claim 1, having the formula:

wherein each R<sub>5</sub> is independently chosen from hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, and mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino.

$$R_5$$
 $R_4$ 
 $R_5$ 
 $R_4$ 
 $R_5$ 
 $R_{1a}$ 

wherein:

A and B are independently CR<sub>2</sub> or N;

- each R<sub>2</sub> is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;
- R<sub>1a</sub> is hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- or di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy;
- R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy;
- $R_4$  represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ alkenyl,  $C_2$ - $C_4$ alkynyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl and  $C_1$ - $C_4$ haloalkoxy; and
- R<sub>5</sub> represents from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent R<sub>5</sub> are taken together to form a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>.

$$R_{5}$$
 $R_{4}$ 
 $R_{7}$ 
 $R_{1a}$ 
 $R_{1a}$ 

wherein:

A and B are independently CR<sub>2</sub> or N;

each R<sub>2</sub> is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl, and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;

R<sub>1a</sub> is hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl or phenoxy;

R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl, and phenoxy;

R<sub>3</sub> is hydrogen, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl or C<sub>1</sub>-C<sub>6</sub>haloalkyl;

R<sub>4</sub> represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkenyl, C<sub>2</sub>-C<sub>4</sub>alkynyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy; and

 $R_5$  represents from 0 to 4 substituents independently chosen from  $R_a$ ; or two adjacent  $R_5$  are taken together to form a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from  $R_a$ .

$$R_{5}$$
 $R_{4}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 

wherein:

A and B are independently CR<sub>2</sub> or N;

each R<sub>2</sub> is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>haloalkyl, and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;

R<sub>1a</sub> is hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- or di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl or phenoxy;

R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy;

 $R_4$  represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ alkenyl,  $C_2$ - $C_4$ alkynyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl and  $C_1$ - $C_4$ haloalkoxy; and

 $R_5$  represents from 0 to 4 substituents independently chosen from  $R_a$ ; or two adjacent  $R_5$  are taken together to form a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from  $R_a$ .

$$R_{5}$$
 $R_{4}$ 
 $R_{3b}$ 
 $R_{3a}$ 
 $R_{1a}$ 
 $R_{1a}$ 

wherein:

A and B are independently CR<sub>2</sub> or N;

- each R<sub>2</sub> is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl, and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;
- R<sub>1a</sub> is hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- or di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl or phenoxy;
- R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl and phenoxy;
- $R_{3a}$  and  $R_{3b}$  are independently hydrogen, hydroxy, halogen, cyano,  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ alkynyl or  $C_1$ - $C_6$ haloalkyl; or  $R_{3a}$  and  $R_{3b}$  are taken together to form an oxo group;
- $R_4$  represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ alkenyl,  $C_2$ - $C_4$ alkynyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl and  $C_1$ - $C_4$ haloalkoxy; and
- $R_5$  represents from 0 to 4 substituents independently chosen from  $R_a$ ; or two adjacent  $R_5$  are taken together to form a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from  $R_a$ .

30. A compound or pharmaceutically acceptable salt thereof having the formula:

$$R_{5}$$
 $R_{4}$ 
 $R_{3b}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{5}$ 
 $R_{4}$ 
 $R_{3b}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 
 $R_{3a}$ 

wherein

A, G, E, and D are independently CR2 or N;

n is 0 or 1;

X is oxygen or CH<sub>2</sub>;

Ar<sub>1</sub> is phenyl or a 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>;

R<sub>2</sub> is independently chosen at each occurrence from hydrogen, halogen, amino, hydroxy, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy;

R<sub>3a</sub> is hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl or C<sub>1</sub>-C<sub>6</sub>haloalkoxy;

 $R_{3b}$  is hydrogen, hydroxy, halogen, cyano,  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ alkynyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_4$ alkyl),  $C_1$ - $C_6$ haloalkyl or  $C_1$ - $C_6$ haloalkoxy; or  $R_{3a}$  and  $R_{3b}$  are taken together to form an oxo group;

R<sub>4</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl and C<sub>1</sub>-C<sub>6</sub>haloalkoxy;

R<sub>5</sub> is independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, and mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, and

R<sub>a</sub> is independently chosen at each occurrence from:

- (i) hydroxy, halogen, amino, aminocarbonyl, cyano, nitro, and -COOH; and
- (ii) C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>8</sub>haloalkyl, C<sub>1</sub>-C<sub>8</sub>haloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>3</sub>-C<sub>8</sub>alkanone, C<sub>2</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>8</sub>alkanoyloxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>2</sub>-C<sub>8</sub>alkyl ether, phenylC<sub>0</sub>-

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 $C_4$ alkyl, phenyl $C_0$ - $C_4$ alkoxy, mono- and di- $(C_1$ - $C_6$ alkyl)amino $C_0$ - $C_6$ alkyl, and (4- to 7-membered heterocycle) $C_0$ - $C_4$ alkyl; each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano,  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy,  $C_1$ - $C_4$ haloalkyl,  $C_1$ - $C_4$ haloalkoxy, and mono- and di- $(C_1$ - $C_4$ alkyl)amino.

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31. A compound or salt according to claim 30, having the formula:

$$R_5$$
 $R_4$ 
 $R_5$ 
 $R_4$ 
 $R_5$ 
 $R_6$ 
 $R_7$ 
 $R_8$ 
 $R_8$ 
 $R_8$ 
 $R_8$ 

G and E are independently CR2 or N;

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each  $R_2$  is independently chosen from hydrogen, halogen, amino, hydroxy, cyano, nitro,  $C_1$ - $C_4$ alkyl,  $C_1$ - $C_4$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_2$ alkyl),  $C_1$ - $C_4$ haloalkyl, and  $C_1$ - $C_4$ haloalkoxy;

R<sub>1a</sub> is hydrogen, hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- or di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl or phenoxy;

R<sub>1</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, cyano, nitro, amino, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkoxy, C<sub>1</sub>-C<sub>6</sub>alkylthio, C<sub>2</sub>-C<sub>6</sub>alkyl ether, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)amino, phenyl, and phenoxy;

R<sub>3</sub> is C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl or C<sub>1</sub>-C<sub>6</sub>haloalkyl;

R<sub>4</sub> represents 0, 1 or 2 substituents independently chosen from hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>alkenyl, C<sub>2</sub>-C<sub>4</sub>alkynyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>2</sub>alkyl), C<sub>1</sub>-C<sub>4</sub>haloalkyl and C<sub>1</sub>-C<sub>4</sub>haloalkoxy; and

R<sub>5</sub> is independently chosen at each occurrence from R<sub>a</sub>.

- 32. A compound or salt according to claim 30 wherein X is oxygen and A, G, D, and E are all CR<sub>2</sub>.
- 33. A compound or salt according to claim 31, wherein at least one of G and E is nitrogen.
- 34. A compound or salt according to any one of claims 1 to 33, wherein the compound exhibits a K<sub>i</sub> of 1 micromolar or less in a MCH receptor ligand binding assay and/or an IC<sub>50</sub> of 1 micromolar or less in a MCH receptor-mediated calcium mobilization assay.

35. A compound or salt according to claim 34, wherein the compound exhibits a K<sub>i</sub> of 500 nanomolar or less in a MCH receptor ligand binding assay

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- 36. A compound or salt according to claim 35, wherein the compound exhibits a K<sub>i</sub> of 100 nanomolar or less in a MCH receptor ligand binding assay.
- 37. A compound or salt according to claim 36, wherein the compound exhibits a K<sub>i</sub> of 10 nanomolar or less in a MCH receptor ligand binding assay.
- 38. A pharmaceutical composition, comprising a compound or salt according to any one of claims 1 to 33, in combination with at least one physiologically acceptable carrier or excipient.
- 39. A pharmaceutical composition according to claim 38, wherein the composition is formulated as an injectible fluid, an aerosol, a cream, a gel, a pill, a capsule, a syrup or a transdermal patch.

- 40. A packaged pharmaceutical preparation, comprising:
- (a) a pharmaceutical composition comprising at least one physiologically acceptable carrier or excipient together with a compound of the formula:

$$\begin{array}{c|c} & R_{3b} & R_{3a} \\ \hline & N & & A \\ \hline & D & E \\ \end{array} \begin{array}{c} & A \\ \hline & B \\ \end{array} \begin{array}{c} & A \\ \hline & N \\ \end{array} \begin{array}{c} & A \\ \hline & A \\ \end{array} \begin{array}{c} &$$

or a pharmaceutically acceptable salt thereof; wherein:

A, E, and D are independently CR<sub>2</sub> or N; and one of B and G is chosen from CR<sub>2</sub> and N; and

the other of B and G is a carbon atom covalently bound to the group  $\xrightarrow{X}$   $\xrightarrow{Ar_1}$ .

X is O, NH or CH<sub>2</sub>;

independently chosen from R<sub>a</sub>;

n is 0 or 1;

Ar<sub>1</sub> is phenyl or a 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>;

represents fused phenyl or a fused 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 3 substituents

R<sub>2</sub> is independently chosen at each occurrence from hydrogen, hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, C<sub>1</sub>-C<sub>6</sub>haloalkoxy, and mono- and di-(C<sub>1</sub>-C<sub>4</sub>alkyl)amino;

 $R_{3a}$  and  $R_{3b}$  are independently hydrogen, hydroxy, halogen, cyano,  $C_1$ - $C_6$ alkyl,  $C_2$ - $C_6$ alkenyl,  $C_2$ - $C_6$ alkynyl,  $C_1$ - $C_6$ alkoxy,  $C_3$ - $C_7$ cycloalkyl( $C_0$ - $C_4$ alkyl),  $C_1$ - $C_6$ haloalkyl or  $C_1$ - $C_6$ haloalkoxy; or  $R_{3a}$  and  $R_{3b}$  are taken together to form an oxo group;

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R<sub>4</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, and C<sub>1</sub>-C<sub>6</sub>haloalkoxy;

R<sub>a</sub> is independently chosen at each occurrence from:

- (i) hydroxy, halogen, amino, aminocarbonyl, cyano, nitro, and -COOH; and
- (ii) C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>8</sub>haloalkyl, C<sub>1</sub>-C<sub>8</sub>haloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>3</sub>-C<sub>8</sub>alkanone, C<sub>2</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>8</sub>alkanoyloxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>2</sub>-C<sub>8</sub>alkyl ether, phenylC<sub>0</sub>-C<sub>4</sub>alkyl, phenylC<sub>0</sub>-C<sub>4</sub>alkoxy, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)aminoC<sub>0</sub>-C<sub>6</sub>alkyl, and (4- to 7-membered heterocycle)C<sub>0</sub>-C<sub>4</sub>alkyl; each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>haloalkyl, C<sub>1</sub>-C<sub>4</sub>haloalkoxy, and mono- and di-(C<sub>1</sub>-C<sub>4</sub>alkyl)amino;
  - (b) in a container; and
  - (c) instructions for using the composition to treat a patient suffering from a disorder associated with MCH receptor activation.

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- 41. A packaged pharmaceutical preparation according to claim 40, wherein the disorder is an eating disorder, sexual disorder, obesity, diabetes, heart disease or stroke.
- 42. A method of reducing medication error and enhancing therapeutic compliance of an individual suffering from a disorder associated with MCH receptor activation, said method comprising the steps of providing a packaged pharmaceutical preparation according to claim 40 wherein the instructions additionally include contraindication and adverse reaction information pertaining to the packaged pharmaceutical preparation.
- 43. A method for modulating binding of MCH to cellular MCH receptor, the method comprising contacting cells expressing MCH receptor with a compound or salt according to any one of claims 1 to 33, in an amount sufficient to detectably modulate MCH binding to MCH receptor *in vitro*, and thereby modulating MCH binding to MCH receptor in the cells.
  - 44. A method according to claim 43, wherein the cells are present in an animal.
- 45. A method according to claim 44, wherein animal is a human, the cell is a brain cell and the fluid is cerebrospinal fluid.
  - 46. A method according to claim 43, wherein the modulation is inhibition.
- 47. A method for modulating binding of MCH to a MCH receptor *in vitro*, the method comprising contacting MCH receptor with a compound or salt according to any one of claims 1 to 33, under conditions and in an amount sufficient to detectably modulate MCH binding to the MCH receptor.
- 48. A method for altering the signal-transducing activity of a MCH receptor in a cell, the method comprising contacting a cell expressing MCH receptor with a compound or salt according to any one of claims 1 to 33, under conditions and in an amount sufficient to detectably alter the electrophysiology of the cell, and thereby altering the signal-transducing activity of MCH receptor in the cell.
  - 49. A method according to claim 48, wherein the cell is present in an animal.

- 50. A method according to claim 49, wherein animal is a human, the cell is a brain cell and the fluid is cerebrospinal fluid.
  - 51. A method according to claim 47 wherein the modulation is inhibition.
- 52. A method according to claim 48, wherein the alteration in the electrophysiology of the cell is detected as a change in the animal's feeding behavior.
- 53. A method for treating a disease or disorder associated with MCH receptor activation, comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of the formula

$$R_4$$
 $R_{3b}$ 
 $R_{3a}$ 
 $A_{3a}$ 
 $A_{3$ 

or a pharmaceutically acceptable salt; wherein:

A, E, and D are independently CR<sub>2</sub> or N; and one of B and G is chosen from CR<sub>2</sub> and N; and

n is 0 or 1;

Ar<sub>1</sub> is phenyl or a 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>;

represents fused phenyl or a fused 6-membered aromatic heterocycle, each of which is substituted with from 0 to 4 substituents independently chosen from R<sub>a</sub>; or two adjacent substituents are taken together to form, with the ring atoms to which they are bound, a fused 5- or 6-membered ring substituted with from 0 to 3 substituents independently chosen from R<sub>a</sub>;

R<sub>2</sub> is independently chosen at each occurrence from hydrogen, hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-

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 $C_7$ cycloalkyl( $C_0$ - $C_4$ alkyl),  $C_1$ - $C_6$ haloalkyl,  $C_1$ - $C_6$ haloalkoxy, and mono- and di-( $C_1$ - $C_4$ alkyl)amino;

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- R<sub>3a</sub> and R<sub>3b</sub> are independently hydrogen, hydroxy, halogen, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl or C<sub>1</sub>-C<sub>6</sub>haloalkoxy; or R<sub>3a</sub> and R<sub>3b</sub> are taken together to form an oxo group;
- R<sub>4</sub> represents from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>alkyl, C<sub>2</sub>-C<sub>6</sub>alkenyl, C<sub>2</sub>-C<sub>6</sub>alkynyl, C<sub>1</sub>-C<sub>6</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>6</sub>haloalkyl, and C<sub>1</sub>-C<sub>6</sub>haloalkoxy;
- R<sub>a</sub> is independently chosen at each occurrence from:
- (i) hydroxy, halogen, amino, aminocarbonyl, cyano, nitro, and -COOH; and
- (ii) C<sub>1</sub>-C<sub>8</sub>alkyl, C<sub>2</sub>-C<sub>8</sub>alkenyl, C<sub>2</sub>-C<sub>8</sub>alkynyl, C<sub>1</sub>-C<sub>8</sub>alkoxy, C<sub>3</sub>-C<sub>7</sub>cycloalkyl(C<sub>0</sub>-C<sub>4</sub>alkyl), C<sub>1</sub>-C<sub>8</sub>haloalkyl, C<sub>1</sub>-C<sub>8</sub>haloalkoxy, C<sub>1</sub>-C<sub>8</sub>alkanoyl, C<sub>3</sub>-C<sub>8</sub>alkanone, C<sub>2</sub>-C<sub>8</sub>alkoxycarbonyl, C<sub>2</sub>-C<sub>8</sub>alkanoyloxy, C<sub>1</sub>-C<sub>8</sub>alkylthio, C<sub>2</sub>-C<sub>8</sub>alkyl ether, phenylC<sub>0</sub>-C<sub>4</sub>alkyl, phenylC<sub>0</sub>-C<sub>4</sub>alkoxy, mono- and di-(C<sub>1</sub>-C<sub>6</sub>alkyl)aminoC<sub>0</sub>-C<sub>6</sub>alkyl, and (4- to 7-membered heterocycle)C<sub>0</sub>-C<sub>4</sub>alkyl; each of which is substituted with from 0 to 3 substituents independently chosen from hydroxy, halogen, amino, cyano, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>haloalkyl, C<sub>1</sub>-C<sub>4</sub>haloalkoxy, and mono- and di-(C<sub>1</sub>-C<sub>4</sub>alkyl)amino.

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- A method according to claim 53, wherein the disease or disorder is an eating 54. disorder, sexual disorder, diabetes, heart disease or stroke.
- A method according to claim 53, wherein the compound or salt is 55. administered orally.
- 56. A method according to claim 53, wherein the compound or salt is administered intranasally, intravenously or topically.
  - 57. A method according to claim 53, wherein the patient is a human.
  - A method according to claim 53, wherein the patient is a dog or a cat. 58.
- 59. A method for treating obesity, comprising administering to a patient in need of such treatment a therapeutically effective amount of a compound of any one of Claims 1 to 33.
- A method according to claim 59, wherein the compound or salt is 60. administered orally.
  - 61. A method according to claim 59 or claim 60, wherein the patient is a human.
- 62. A method according to claim 59 or claim 60, wherein the patient is a dog or a cat.
- 63. A compound or salt according to any one of claims 1 to 33, wherein the compound or salt is radiolabeled.
- 64. A method for determining the presence or absence of MCH receptor in a sample, comprising the steps of:
  - (a) contacting a sample with a compound or salt according to any one of claims 1 to 33 under conditions that permit binding of the compound or salt to MCH receptor; and
  - detecting a level of compound or salt bound to MCH receptor, and therefrom (b) determining the presence or absence of MCH receptor in the sample.

- 65. A method according to claim 64, wherein the compound or form is a radiolabeled, and wherein the step of detection comprises the steps of:
  - (i) separating unbound compound from bound compound; and
  - (ii) determining an amount of bound compound in the sample.
  - 66. A method according to claim 65, wherein the sample is a tissue section.
- 67. (3-Benzyl-phenyl)-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-methanone or a pharmaceutically acceptable salt thereof.
- 68. (6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-(3-phenoxy-phenyl)-methanone or a pharmaceutically acceptable salt thereof.
- 69. (6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-[6-(2-ethyl-phenoxy)-pyridin-2-yl]-methanone or a pharmaceutically acceptable salt thereof.
- 70. (6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-[6-(3-ethyl-phenoxy)-pyridin-2-yl]-methanone or a pharmaceutically acceptable salt thereof.
- 71. 2-(3-Benzyl-benzyl)-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 72. 2-[1-(3-Benzyloxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 73. 2-[1-(3-Benzyloxy-phenyl)-ethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 74. 2-[1-(3-Phenoxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 75. 2-[1-(4-Benzyloxy-3,5-dimethyl-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 76. 2-[1-(4-Benzyloxy-3,5-dimethyl-phenyl)-ethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.

- 77. 2-[1-(4-Benzyloxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 78. 2-[1-(4-Benzyloxy-phenyl)-ethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 79. 2-[1-(4-Phenoxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 80. 2-[2-(4-Isopropyl-phenoxy)-pyridin-4-ylmethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 81. 2-[2-(4-*tert*-Butyl-phenoxy)-pyridin-4-ylmethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 82. 2-[3-(3,4-Dichloro-phenoxy)-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 83. 2-[3-(4-Ethoxy-phenoxy)-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 84. 2-[3-(4-Isopropyl-phenoxy)-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 85. 2-[3-(4-*tert*-Butyl-phenoxy)-2-methyl-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 86. 2-[3-(4-*tert*-Butyl-phenoxy)-4-methyl-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 87. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-dichloro-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 88. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-diethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.

- 89. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-dimethoxy-1,1-dimethyl-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 90. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 91. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-dimethoxy-1-methyl-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 92. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6,7-dimethoxy-3-methyl-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 93. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6-ethoxy-7-methoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 94. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-6-methoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 95. 2-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-7-ethoxy-6-methoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 96. [2-(4-*tert*-Butyl-phenoxy)-pyridin-4-yl]-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-methanone or a pharmaceutically acceptable salt thereof.
- 97. 2-[6-(2-Ethyl-phenoxy)-pyridin-2-ylmethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 98. 2-[6-(3-Ethyl-phenoxy)-pyridin-2-ylmethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 99. 2-[6-(4-*tert*-Butyl-phenoxy)-pyridin-2-ylmethyl]-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 100. 2-{1-[3-(3,4-Dichloro-phenoxy)-phenyl]-ethyl}-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.

- 101. 2-{1-[3-(3,4-Dichloro-phenoxy)-phenyl]-ethyl}-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 102. 2-{1-[3-(4-Chloro-phenoxy)-phenyl]-ethyl}-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 103. 2-{1-[3-(4-Chloro-phenoxy)-phenyl]-ethyl}-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 104. 2-{1-[3-(4-Methoxy-phenoxy)-phenyl]-ethyl}-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 105. 2-{1-[3-(4-*tert*-Butyl-phenoxy)-phenyl]-ethyl}-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 106. 2-{1-[3-(4-tert-Butyl-phenoxy)-phenyl]-ethyl}-6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 107. [3-(4-*tert*-Butyl-phenoxy)-2-methyl-phenyl]-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-methanone or a pharmaceutically acceptable salt thereof.
- 108. 4-[3-(6,7-Dimethoxy-3,4-dihydro-1H-isoquinolin-2-ylmethyl)-phenoxy]-benzonitrile or a pharmaceutically acceptable salt thereof.
- 109. 6,7-Dimethoxy-2-(3-p-tolyloxy-benzyl)-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 110. 6,7-Dimethoxy-2-[1-(3-phenoxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 111. 6,7-Dimethoxy-2-[1-(4-phenoxy-phenyl)-ethyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 112. 6,7-Dimethoxy-2-[3-(3,4,5-trimethoxy-phenoxy)-benzyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.

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- 113. 6,7-Dimethoxy-2-[3-(4-methoxy-phenoxy)-benzyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 114. 6,7-Dimethoxy-2-[3-(4-phenoxy-phenoxy)-benzyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 115. 6,7-Dimethoxy-2-[3-(4-trifluoromethoxy-phenoxy)-benzyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 116. 6,7-Dimethoxy-2-[3-(4-trifluoromethyl-phenoxy)-benzyl]-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 117. 6,7-Dimethoxy-2-{1-[3-(4-methoxy-phenoxy)-phenyl]-ethyl}-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 118. 6-[3-(4-*tert*-Butyl-phenoxy)-benzyl]-5,6,7,8-tetrahydro-[1,3]dioxolo[4,5-g]isoquinoline or a pharmaceutically acceptable salt thereof.
- 119. 7-Ethoxy-2-[2-(4-isopropyl-phenoxy)-pyridin-4-ylmethyl]-6-methoxy-1,2,3,4-tetrahydroisoquinoline or a pharmaceutically acceptable salt thereof.
- 120. The use of a compound or salt according to any one of claims 1-33 for the manufacture of a medicament for the treatment of a disorder associated with MCH receptor activation
- 121. A use according to claim 120, wherein the disorder is an eating disorder, sexual disorder, obesity, diabetes, heart disease or stroke.